



Input Set : A:\seqlist.txt

Output Set: C:\CRF3\06052001\1849868.raw

ENTERED

```
4 <110> APPLICANT: Genentech, Inc.
              Gao, Wei-Qiang
      7 <120> TITLE OF INVENTION: HAIR CELL DISORDERS
     10 <130> FILE REFERENCE: GENENT.035VPC
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/849,868
C--> 12 <141> CURRENT FILING DATE: 2001-05-04
     12 <160> NUMBER OF SEQ ID NOS: 14
     14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 669
     18 <212> TYPE: PRT
     19 <213> ORGANISM: Homo sapiens
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                         5
    .24 Leu Phe Pro Asn Pro Ile Arg Ala Leu Gly Pro Asn Ser Pro Ala Pro
     26 Arg Ala Val Arg Val Glu Arg Ser Val Ser Gly Glu Met Ser Glu Arg
     28 Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys Lys Glu Arg Gly Ser
                                55
     30 Gly Lys Lys Pro Glu Ser Ala Ala Gly Ser Gln Ser Pro Ala Leu Pro
                            70
                                                 75
     32 Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Ala Ala Gly Ser Lys
     34 Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser Ser Leu Arg Phe
     36 Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys Asn Lys Pro Gln
                                    120
     38 Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu Leu Arg Ile Asn
                                135
     40 Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys Lys Val Ile Ser
                            150
                                                 155
     42 Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr Ile Val Glu Ser
                                            170
                        165
     44 Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu Gly Ala Tyr Val
                                        185
     46 Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr Glu Gly Ala Asn
                                    200
     48 Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr Ser His Leu Val
                                215
     50 Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys
                            230
                                                 235
     52 Phe Met Val Lys. Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys Cys
                                            250
                        245
     54 Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn Val Pro Met Lys
                                        265
                    260
```

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56 Val Gln Asn Gln Glu Lys Ala Glu Glu Leu Tyr Gln Lys Arg Val Leu 58 Thr Ile Thr Gly Ile Cys Ile Ala Leu Leu Val Val Gly Ile Met Cys 295 60 Val Val Ala Tyr Cys Lys Thr Lys Lys Gln Arg Lys Lys Leu His Asp 310 315 62 Arg Leu Arg Gln Ser Leu Arg Ser Glu Arg Asn Asn Met Met Asn Ile 325 330 64 Ala Asn Gly Pro His His Pro Asn Pro Pro Pro Glu Asn Val Gln Leu 340 345 66 Val Asn Gln Tyr Val Ser Lys Asn Val Ile Ser Ser Glu His Ile Val 360 68 Glu Arg Glu Ala Glu Thr Ser Phe Ser Thr Ser His Tyr Thr Ser Thr 375 70 Ala His His Ser Thr Thr Val Thr Gln Thr Pro Ser His Ser Trp Ser 390 395 72 Asn Gly His Thr Glu Ser Ile Leu Ser Glu Ser His Ser Val Ile Val 405 410 74 Met Ser Ser Val Glu Asn Ser Arg His Ser Ser Pro Thr Gly Gly Pro 420 425 76 Arg Gly Arg Leu Asn Gly Thr Gly Gly Pro Arg Glu Cys Asn Ser Phe 435 440 78 Leu Arg His Ala Arg Glu Thr Pro Asp Ser Tyr Arg Asp Ser Pro His 455 80 Ser Glu Arg Tyr Val Ser Ala Met Thr Thr Pro Ala Arg Met Ser Pro 470 475 82 Val Asp Phe His Thr Pro Ser Ser Pro Lys Ser Pro Pro Ser Glu Met 485 490 84 Ser Pro Pro Val Ser Ser Met Thr Val Ser Met Pro Ser Met Ala Val 500 505 86 Ser Pro Phe Met Glu Glu Glu Arg Pro Leu Leu Val Thr Pro Pro 520 88 Arg Leu Arg Glu Lys Lys Phe Asp His His Pro Gln Gln Phe Ser Ser 535 90 Phe His His Asn Pro Ala His Asp Ser Asn Ser Leu Pro Ala Ser Pro 550 555 92 Leu Arg Ile Val Glu Asp Glu Glu Tyr Glu Thr Thr Gln Glu Tyr Glu 570 94 Pro Ala Gln Glu Pro Val Lys Lys Leu Ala Asn Ser Arg Ala Lys 585 96 Arg Thr Lys Pro Asn Gly His Ile Ala Asn Arg Leu Glu Val Asp Ser 595 98 Asn Thr Ser Ser Gln Ser Ser Asn Ser Glu Ser Glu Thr Glu Asp Glu 615 100 Arg Val Gly Glu Asp Thr Pro Phe Leu Gly Ile Gln Asn Pro Leu Ala 635 630 102 Ala Ser Leu Glu Ala Thr Pro Ala Phe Arg Leu Ala Asp Ser Arg Thr 650 104 Asn Pro Ala Gly Arg Phe Ser Thr Gln Glu Glu Ile Gln

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105				660					665								
		<210> SEQ ID NO: 2 <211> LENGTH: 2226															
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			YPE:		Uome	o sap	ni one										
			EATUI		пош	Jal	Tells	>									
			AME/I		CDS												
						(2	2008	)									
			EQUE			•											
118	g g	gc go	cg ag	gc go	cc to	ca go	eg eg	gg co	eg et	tc go	ct c	to co	cc ct	c ga	ag ge	ga caa	49
119	G.	ly A	la Se	er A.	la Se	er A.	la Ai	cg Pi	ro Le	eu A	la Le	eu Pi	ro Le	eu G	lu G	Ly Gln	
120	-	l				5					10					15	
						gat	_	_						_	_	-	97
	Thr	Phe	Pro	_	Pro	Asp	Pro	Ser		Trp	Thr	Lys	Leu		Cys	Ala	
124	~~~	200	aat	20	aat	aga	~~~	at a	25 cat	ata	000	~~~	~ a +	30	000	~~~	145
		_	_	_	_	Arg						_	-	-	_		145
128	Oru	501	35	110	1119	1119	1114	40	711 g	пси	711 G	1119	45	VUI	1119	71 <u>1</u> u	
	caa	aσa		cag	agg	caa	agg		aaa	caa	gaa	αaa	_	aca	agg	ctc	193
						Gln											
132		50	_		-		55		_			60	_		_		
134	cgg	caa	gaa	gcc	gga	gtc	cgc	ggc	ggg	cag	cca	gag	ccc	agc	ctt	gcc	241
	_	Gln	Glu	Ala	Gly	Val	Arg	Gly	Gly	Gln	Pro	Glu	Pro	Ser	Leu	Ala	
	65					70					75					80	
						gat											289
	Ser	Pro	тте	GLU	_	Asp	GIU	ьуѕ	Pro	90 GTÀ	тте	GIY	Cys	Arg	Pne 95	GIN	
140	act	ant	cct	tca	85 ata	tga	220	cad	ttc		ata	ctc	ctc	tct		att	337
		_	Pro	_		_								Ser	_		557
144				100							105					110	
146	caa	gtg	gtt	caa	gaa	tgg	gaa	tga	att	gaa	tcg	aaa	aaa	caa	acc	aca	385
147	Gln	Val	Val	Gln	Glu	Trp	Glu	*	Ile	Glu	Ser	Lys	Lys	Gln	Thr	Thr	
148					115						120					125	
						aaa											433
	Lys	Tyr	GIn	Asp		Lys	ьys	Ala	Arg		Val	Arg	Thr	Ser		*	
152	<b>6</b> 22	200	2+0	20+	130	tas	++~	+ ~~	202	135	+ > +	a+a	<b>C</b> 2 2	3.4t	140	ana.	481
						tga *											401
156	0111	JCI		1111	145		1110	112	1119	• • • •	150	*41	01	DCI	1100	155	
	caa	att	agg	aaa		cag	tqc	ctc	tqc	caa		cac	cat	cqt	qqa		529
			Arg		*	_	-		_					Ārg			
160			_	_		160					165					170	
						tgg											577
	Lys	Arg	Asp	His		Trp	Tyr	Ala	Ser		Asn	*	Arg	Ser	Ile		
164				,	175		L .			180	_ 4 -					185	CO.
	_		-	-		cat	_			_			_		_		625
168	vaı	rne	Arg	vaı	190	His	^	ASI	тте	ser	11e	uls	Arg	Arg	ser	ьуs 200	
	tac	ttc	ttc	atc		atc	tac	atc	cac	cac		gac	aad	cca	tot		673
170	cac			466	cuc	460	cuc	ucc	Cuc	Cuc	-99	gue	uug	Ju		-9-	0,5

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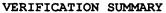
171 172	Tyr	Phe	Phe	Ile	Tyr 205	Ile	Tyr	Ile	His	His 210	Trp	Asp	Lys	Pro	Ser 215	Cys	
174	aaa	atq	tqc	qqa	qaa	gga	qaa	aac	ttt	ctq	tqt	qaa	taa	agg	qqa	ata	721
						Ğly											
176	•		-	220		•			225		-		•	230	-		
-	ctt	cat	aat		aσa	cct	ttc	aaa		ctc	σασ	ata	ctt		caa	ata	769
						Pro											. 05
180	200		235	014	**** 9			240		200	014	110	245	<b>V U L</b>	0111	V 44.1	
	cca	acc		att	cac	tgg	age		ata	tac	taa	maa		acc	cat	ma a	817
						Trp											017
184		250	110	110		111	255	Lyo	1100	- y -		Olu	260	*****	1113	Oru	
	ant		222	CCa	2012	aaa		aas	aas	act	at a	cca		asa	ant	act	865
						Lys											003
188	Ser	265	цуз	FIO	Arg	пуз	270	Сту	GTÄ	лта	vai	275	GIU	GIU	Ser	Ата	
	<b>~~</b>		220	000	ant.	ctg		000	cot	act	+ ~+		000	ant.	aa+	ata	913
						Leu											913
192	_	птэ	ASII	Arg	птэ	285	uis	Arg	110	FIO	290	ату	ALG	птэ	птэ	295	
		~~+	~~~	at a	ata		220	<i>a</i>	~~~	202	-	~~~	222	act	~~~		961
	-				_	caa Gln			_			-		_	-	tya *	901
196	Cys	GIY	СТУ	пец	300	GIII	ASII	GIII	Giu	305	Ala	GIU	пуз	мта	310		
	~~~	+ 0+	+ ~~	~~~		cct	+ 00	at a	+ ~ ~		222		+ -+	ant.		ant.	1009
	_		_	-		Pro	_	_	_	_				_	-		1009
200	FIO	ser	Ser	Ala	315	FIO	ser	val	•	1111	320	GIII	ıyı	MSP	GIU	325	
	+ ~~		+ ~ ~	~~~		000	+ 00	+	000	200		000	~~~	+ ~+	222		1057
						cca Pro											1037
203	Cys	GIII	пр	HIG	330	FIO	Ser	••	FIO	1111	335	ALG	GIU	Cys	FLO	340	
	aat	~~~	+ 0 2	2+2		atc	+22	222	cat	cat		car	+ α э	aca	+ > +		1105
						Ile											1105
208	оту	GIU	261	116	345	116		цуs	ALG	1113	350	GIII		ліа	ıyı	Cys	
	+ ~ ~	a2a	202	200		gac	ato	ctt	++0	Cac		tca	cta	+ 2 0	++0	Cac	1153
211	_		_	_	-	Asp					_						1133
212		355	ALG	Der	Arg	изр	360	пеп	rne	1113	9111	365	шец	ı yı	rne	1113	
	200		tca	ctc	CaC	tac		Cac	CCa	asc.	tcc		CCA	cad	cta	asa	1201
	_					Tyr	_			-		_		_	_		1201
216		110	Der	пец	1113	375	Cys	1113	110	лэр	380		110	0111	шец	Giu	
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					_	Lys				_	_			_		_	1247
220		Arg	1111	1113		цуз	390	110	1110	1119	цуз	395	ьси	Cys	11011	711 9	
		atc	atc	cat	ana	aaa		tan	aca	cad	cad		aac	taa	aaa	CCC	1297
223	Asn	Val	Tle	Ara	Ara	Lys	Gln	*	Ala	Gln	Gln	Pro	Asn	Trn	Glv	Pro	1431
224		V 0.1	110	1119	my	405	0111		711 U	QIII	Q111	410	11511	TIP	O <sub>T</sub> y	110	
		add	aca	tct	taa	tgg	cac	agg	ann	CCC	tca		atα	taa	cad	ctt	1345
						Trp											1010
228	-	****9		001			420	9	**** 9		001		425		·	200	
		cad	σса	tac	cad	aga		CCC	taa	ttc	cta	cca		ctc	tcc	tca	1393
						Arg											
232			430	<b>010</b>	Ų	9		435					9	440			
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240	~+ ^	+	222		~+~	~~~	a a +	~~~		~+ ~	aa+	~~~	++-		~~~	~~+	1527
															ggc		1537
	vai	ser		Arg	vaı	GIII	nis	_	GIY	vaı	HIS	Ата		HIS	Gly	GIÀ	
244			475					480					485				1505
	_					_	-						-	-	acc		1585
	GIN		ьeu	HIS	GTA	Arg	_	GIU	Inr	ser	Thr		Arg	Asp	Thr	Thr	
248		490					495	<b>.</b>				500					1622
															cag		1633
	_	Ата	Ата	сту	GIU		vai	•	Pro	ser	Pro		Ата	vai	Gln	Leu	
	505					510				<b>L</b>	~~~	515		L	<b>.</b>		1.001
															tag		1681
		Pro	Pro	GIN	PIO	_	Ата	^	GIII	•	GIII	Pro		cys	*	Pro	
	520					525							530				1700
															gta		1729
	Leu	GIU	_	ser	сту	GIY	^	GIY		^	ASII	ASP	Pro	Arg	Val	Arg	
260			535						540						545		1777
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	Ата	ser	Pro		Ата	cys	•	GIU	Thr		GIN	•	Pro	Ala	Gly		
264				550						555						560	1005
															gga		1825
	гуѕ	ASI	GIN	Ala		rrp	Pro	HIS	Cys	•	570	тте	GTĀ	ser	Gly		
268				-+-	565	~~~	~~~	+	a+ a	2~2		+~-	220	2~2		575	1072
												_		_	aga	tga *	1873
	GIII	His	гуѕ	ьeu		GIU	GTII	^	ьeu	Arg		*	ASII	Arg	Arg	•	
272	~		. ~ ~	+~-	580	+	~~~	+++	aat	~~~	585		~~~		aat	~~~	1021
															cct		1921
276	гуѕ	590	Arg	•	Arg	ıyı	Ата	595	PIO	СТУ	птѕ	IIII	600	PIO	Pro	GTÀ	
	200		+ 0+	+~~	~~~	220	200		a++		cct	~~~		~~~	cag	a20	1969
															Gln		1909
280	ser	605	Ser		Gry	ASII	1111	610	ьeu	FIO	FIO	GTÀ		615	GIII	ASP	
	+ = =		300	3 a a	cca	ctt	ctc		202	aas	202	22 <b>+</b>	CCA		caggo	~+ <i>~</i>	2018
283		Pro	_		-			-			-			ggc	cayyı	Jug	2010
284		LIO	261	620	110	Беа	пец	пор	625	ОТУ	ALG	ASII	110				
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		_							_							tatatg	
		gtaaa	-	_	_		_		4 990		auuc		Jucu		caaa	cucucy	2226
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298	1	_, _			5				9	10					15	<del>-</del>	
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DATE: 06/05/2001

PATENT APPLICATION: US/09/849,868

TIME: 13:11:29

Input Set : A:\seqlist.txt

Output Set: C:\CRF3\06052001\1849868.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date